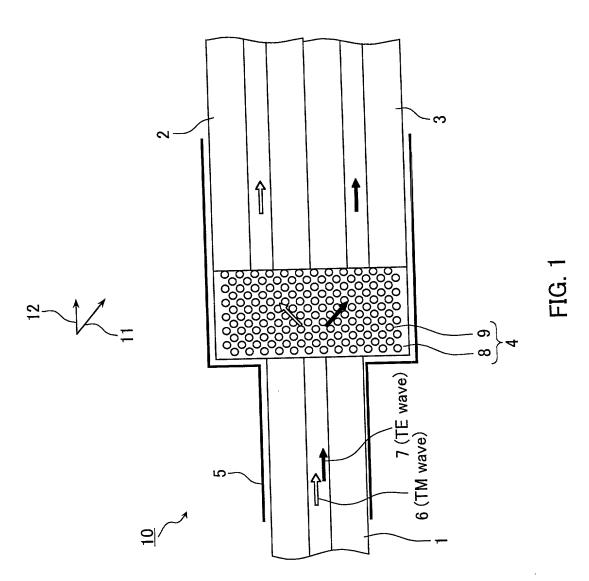
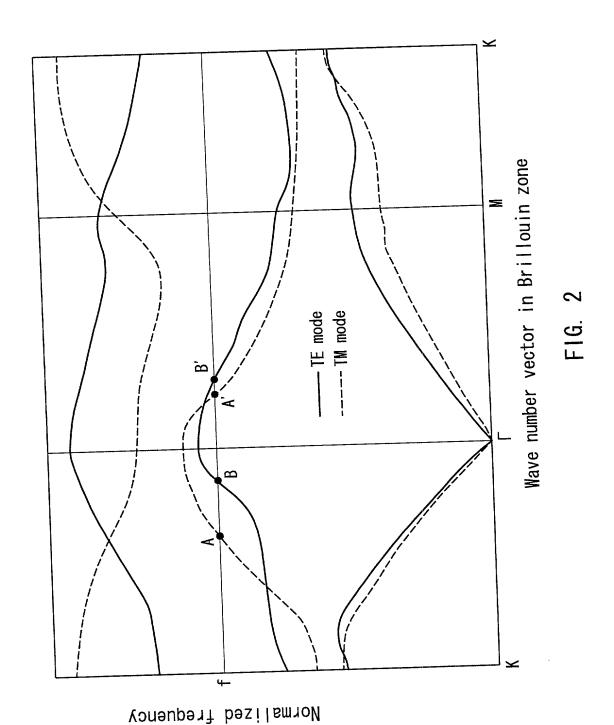
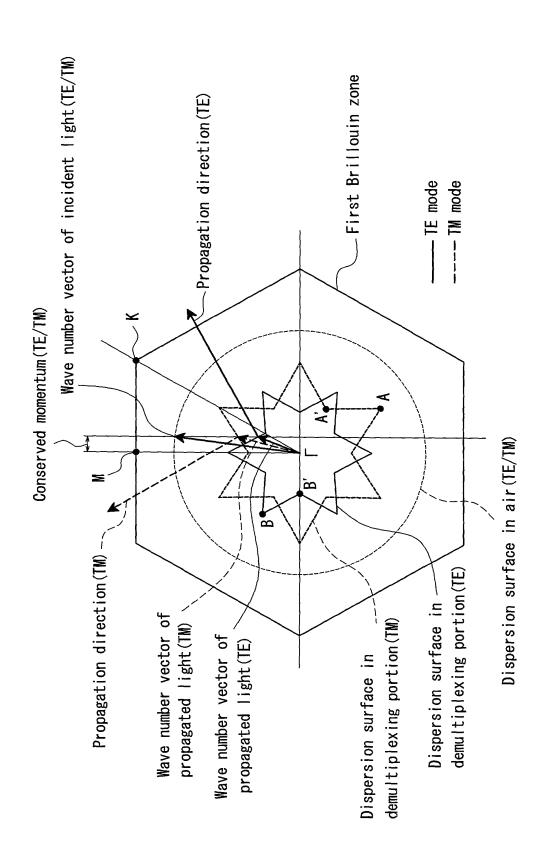
Inventor: Hidenobu HAMADA Docket No. 10873.878US01 Title: OPTICAL DEVICE Attorney Name. Douglas P. Mueller Phone No.: 612 371 5237 Sheet 1 of 22



Inventor: Hidenobu HAMADA Docket No. 10873.878US01 Title: OPTICAL DEVICE Attorney Name. Douglas P. Mueller Phone No. 612.371 5237 Sheet 2 of 22

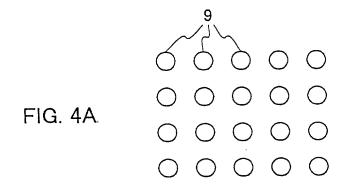


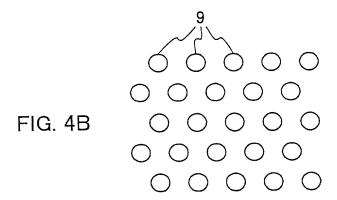
Inventor: Hidenobu HAMADA
Docket No. 10873 878US01
Title. OPTICAL DEVICE
Attorney Name: Douglas P. Mueller
Phone No. 612.371.5237
Sheet 3 of 22

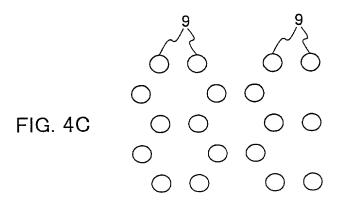


F16. 3

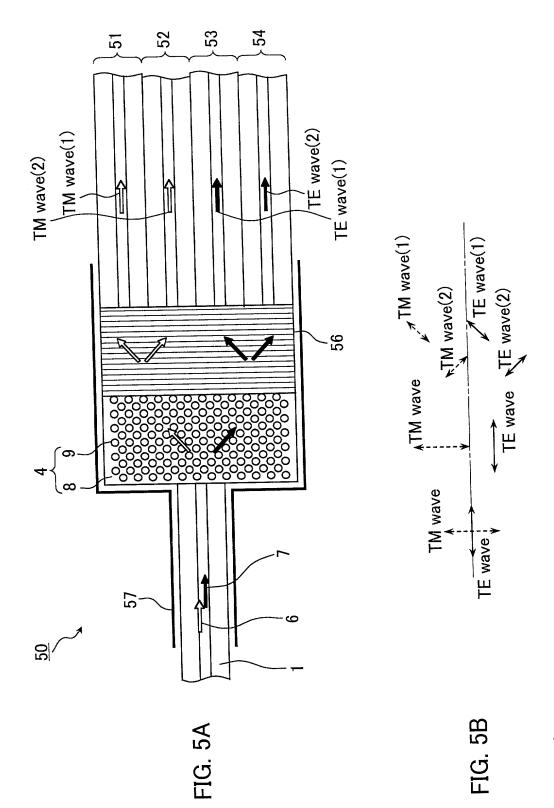
Inventor: Hidenobu HAMADA
Docket No · 10873.878US01
Title: OPTICAL DEVICE
Attorney Name: Douglas P. Mueller
Phone No. 612 371 5237
Sheet 4 of 22



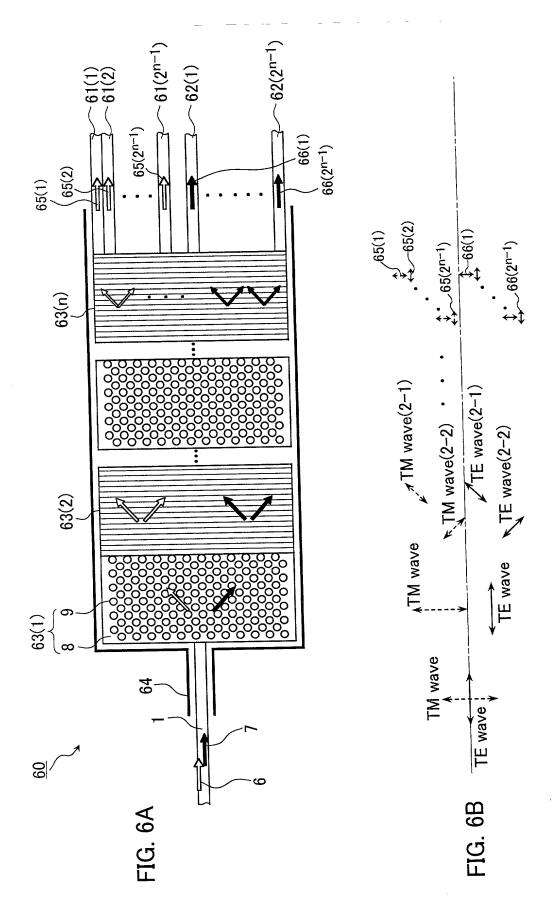




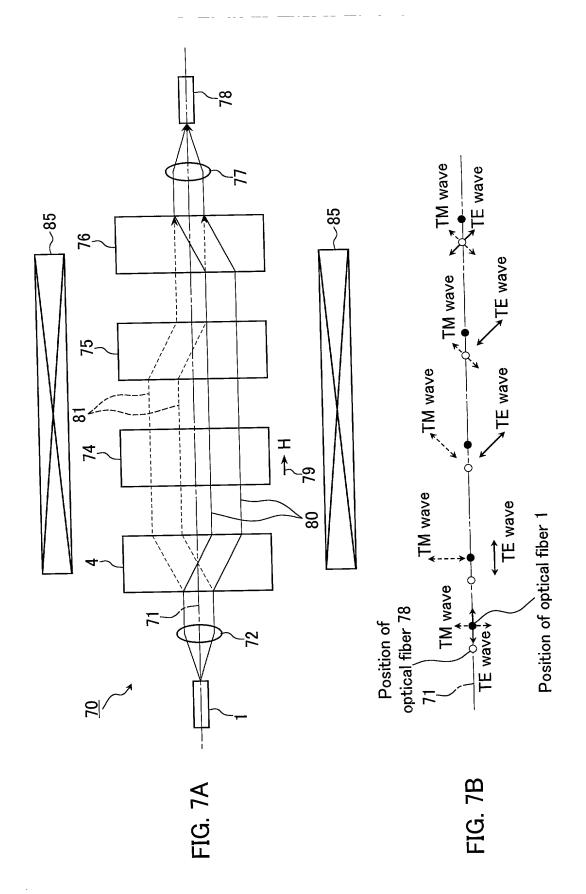
Inventor: Hidenobu HAMADA Docket No.: 10873 878US01 Title OPTICAL DEVICE Attorney Name: Douglas P. Mueller Phone No.: 612.371 5237 Sheet 5 of 22



Inventor: Hidenobu HAMADA Docket No.: 10873.878US01 Title. OPTICAL DEVICE Attorney Name: Douglas P Mueller Phone No: 612 371 5237 Sheet 6 of 22

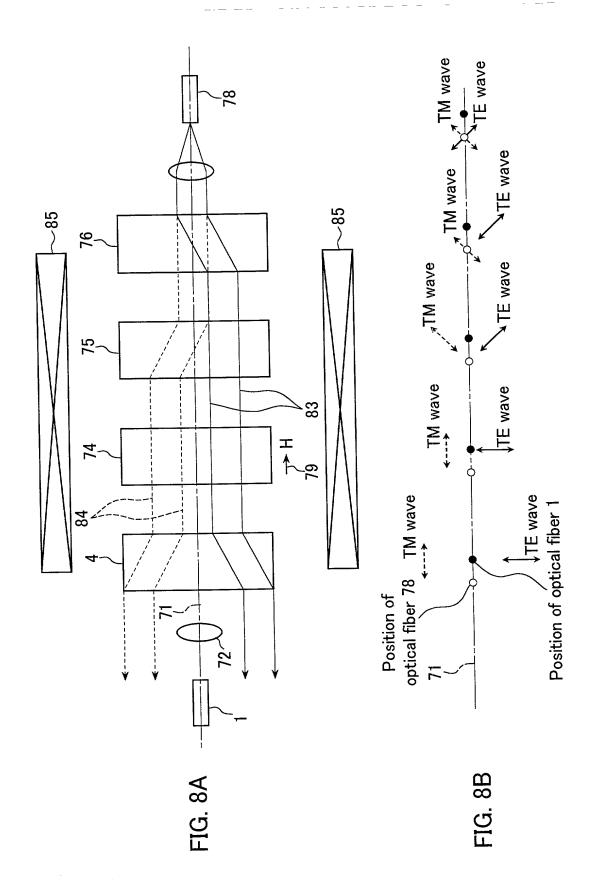


Inventor: Hidenobu HAMADA Docket No · 10873 878US01 Title. OPTICAL DEVICE Attorney Name: Douglas P. Mueller Phone No.: 612 371.5237 Sheet 7 of 22

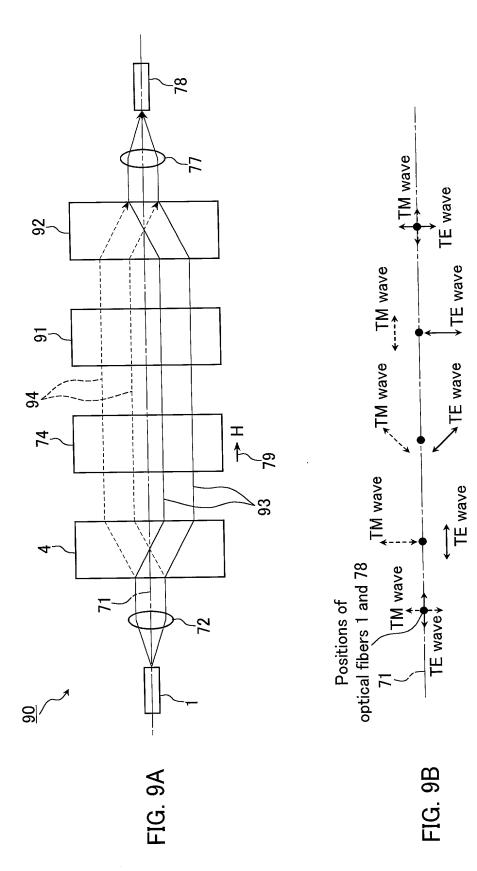


Inventor: Hidenobu HAMADA Docket No.: 10873.878US01 Title. OPTICAL DEVICE Attorney Name: Douglas P Mueller Phone No 612 371.5237 Sheet 8 of 22

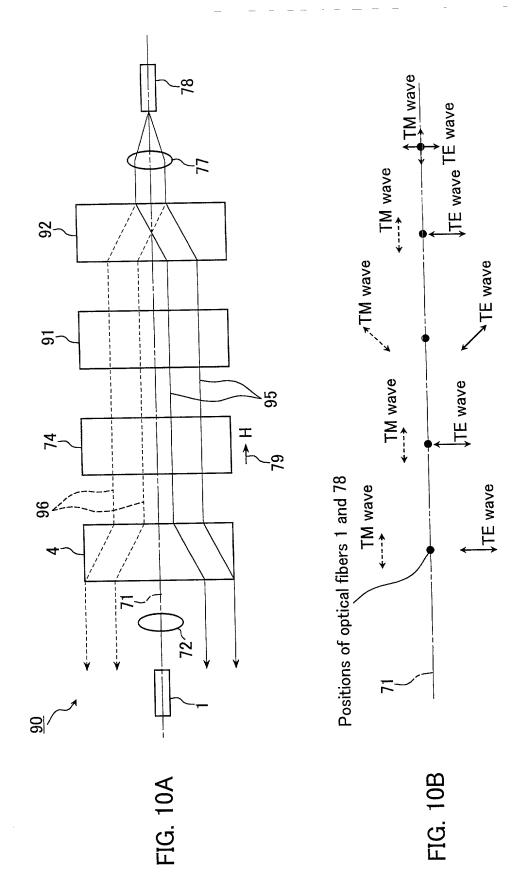




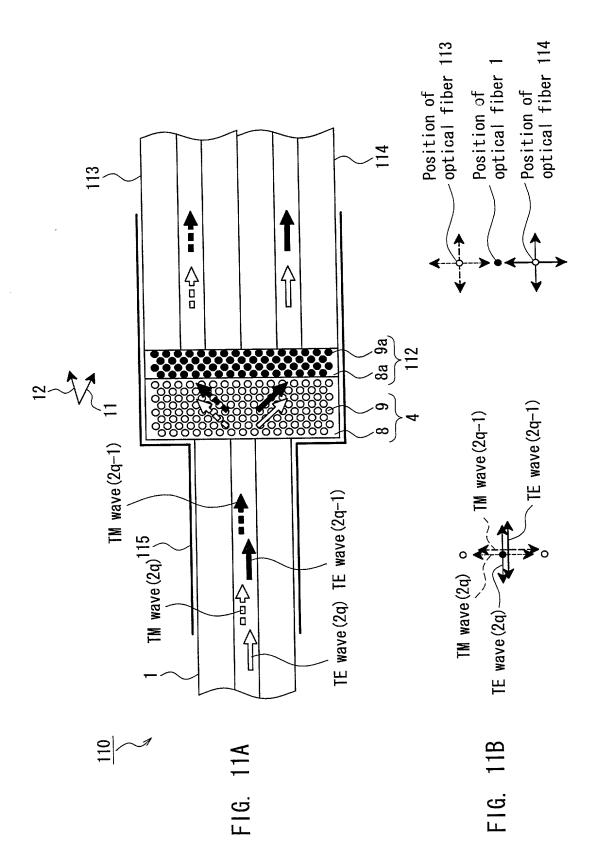
Inventor: Hidenobu HAMADA Docket No.: 10873 878US01 Title: OPTICAL DEVICE Attorney Name: Douglas P Mueller Phone No 612.371.5237 Sheet 9 of 22



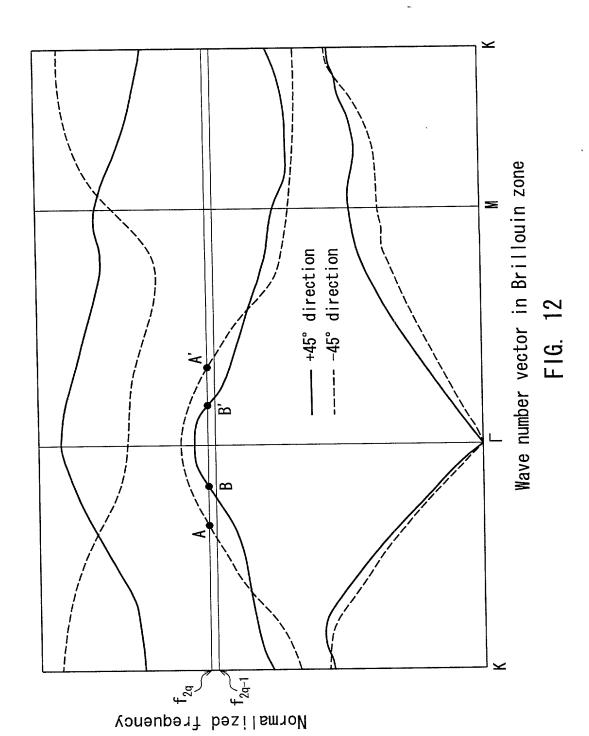
Inventor: Hidenobu HAMADA Docket No · 10873.878US01 Title OPTICAL DEVICE Attorney Name: Douglas P. Mueller Phone No.: 612.371.5237 Sheet 10 of 22



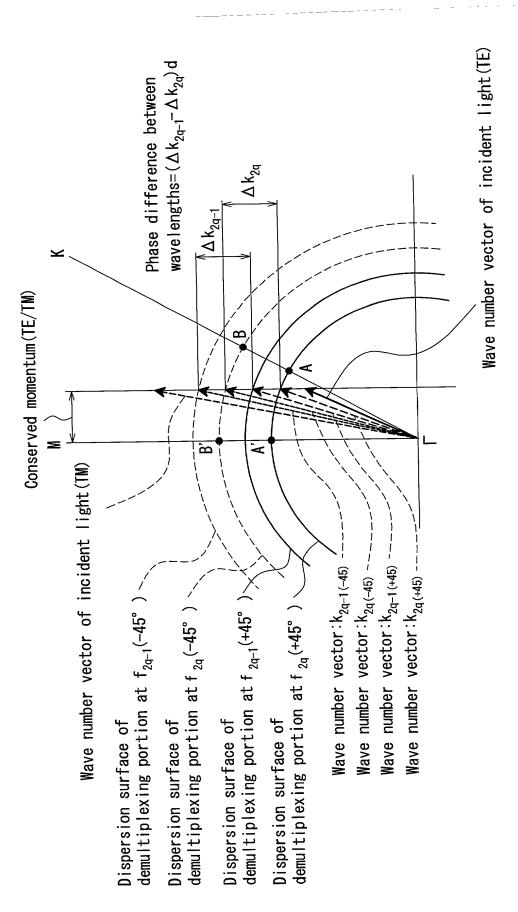
Inventor: Hidenobu HAMADA
Docket No.: 10873 878US01
Title OPTICAL DEVICE
Attorney Name Douglas P. Mueller
Phone No 612 371 5237
Sheet 11 of 22



Inventor: Hidenobu HAMADA Docket No 10873 878US01 Title OPTICAL DEVICE Attorney Name: Douglas P Mueller Phone No: 612.371 5237 Sheet 12 of 22

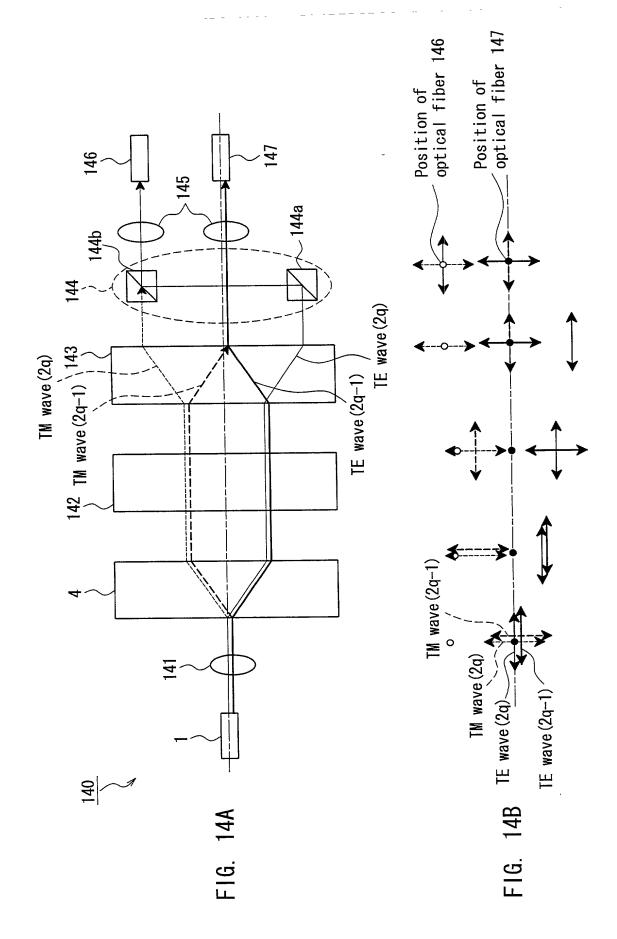


Inventor: Hidenobu HAMADA Docket No. 10873.878US01 Title: OPTICAL DEVICE Attorney Name: Douglas P. Mueller Phone No.: 612.371.5237 Sheet 13 of 22

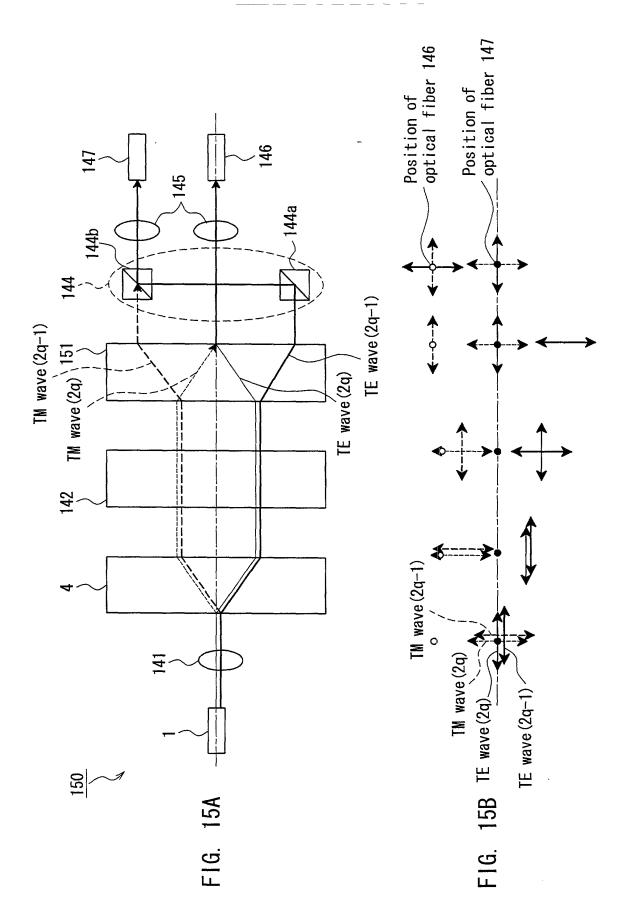


F1G.

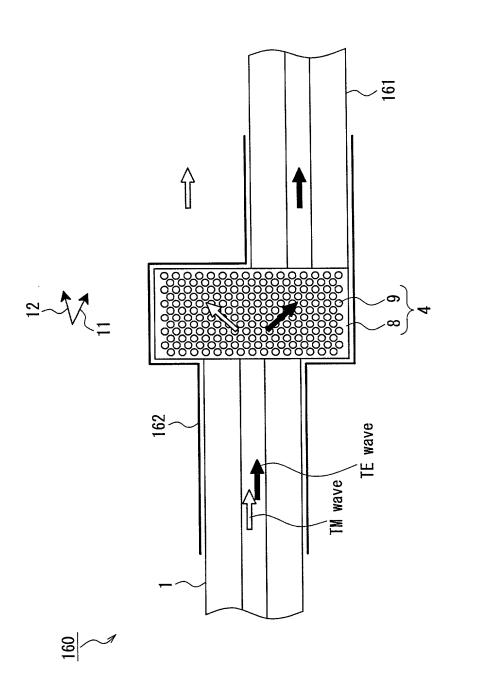
Inventor: Hidenobu HAMADA Docket No.: 10873 878US01 Title OPTICAL DEVICE Attorney Name: Douglas P Mueller Phone No: 612.371 5237 Sheet 14 of 22



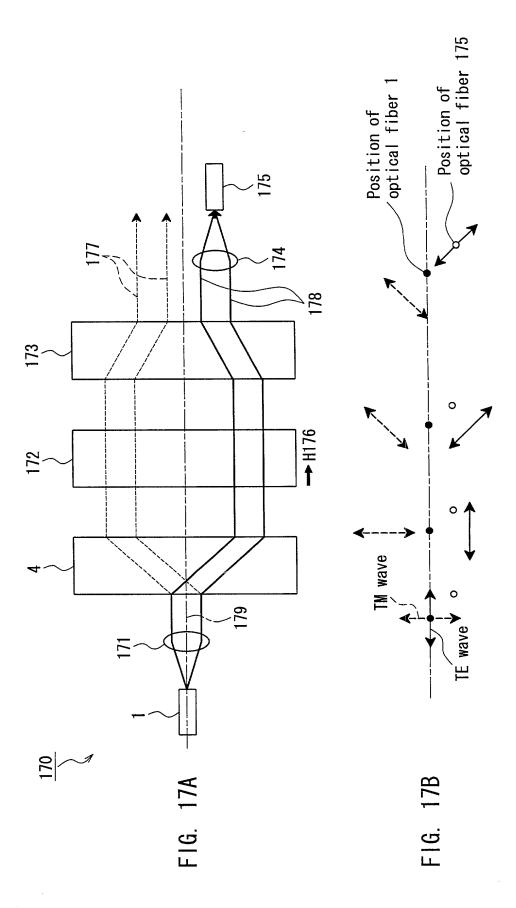
Inventor: Hidenobu HAMADA Docket No.: 10873.878US01 Title. OPTICAL DEVICE Attorney Name: Douglas P Mueller Phone No.: 612.371.5237 Sheet 15 of 22



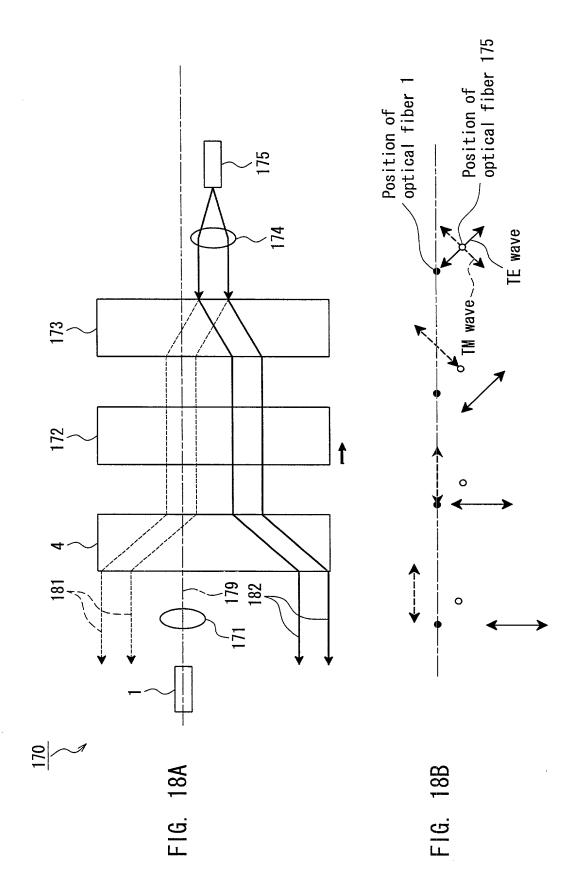
Inventor: Hidenobu HAMADA Docket No 10873.878US01 Title OPTICAL DEVICE Attorney Name. Douglas P. Mueller Phone No · 612 371.5237 Sheet 16 of 22



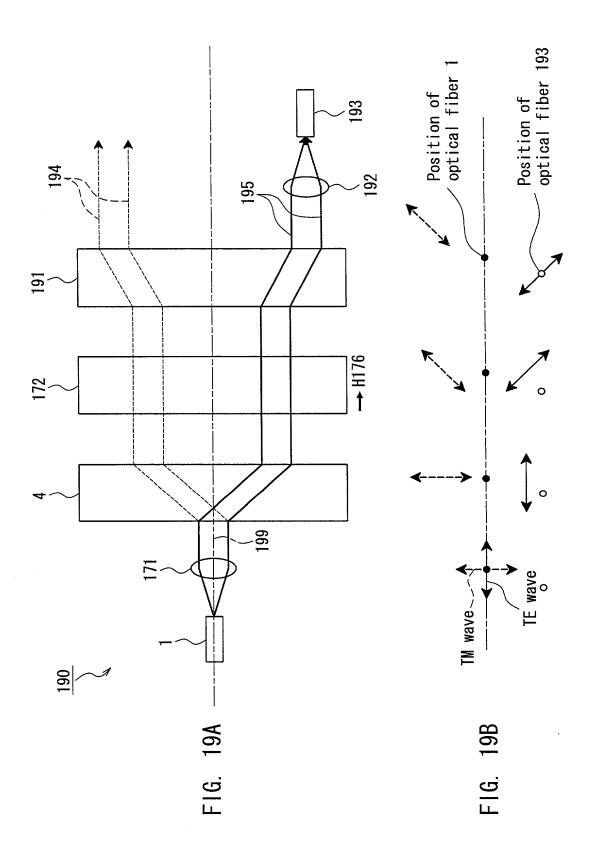
Inventor: Hidenobu HAMADA
Docket No: 10873.878US01
Title OPTICAL DEVICE
Attorney Name. Douglas P Mueller
Phone No: 612 371 5237
Sheet 17 of 22



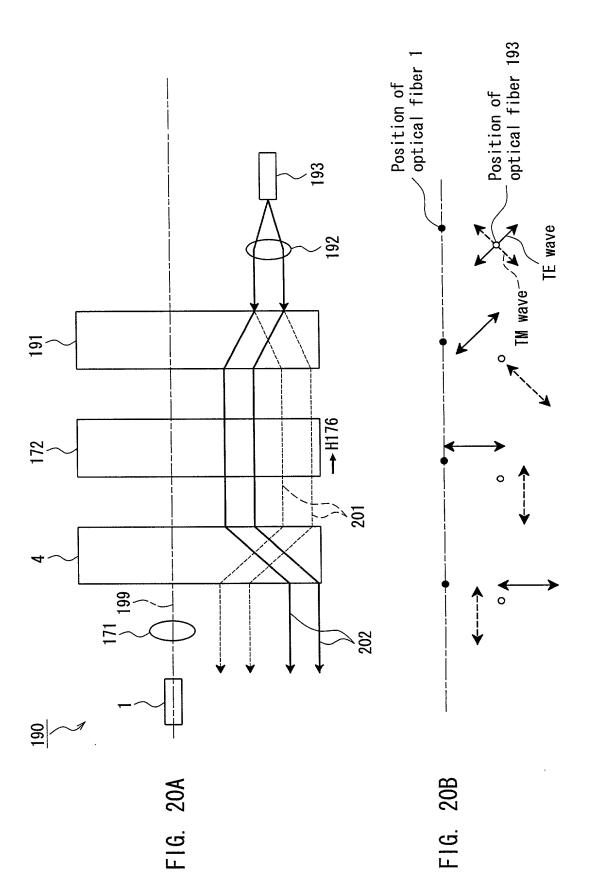
Inventor: Hidenobu HAMADA Docket No.. 10873 878US01 Title- OPTICAL DEVICE Attorney Name Douglas P Mueller Phone No. 612.371.5237 Sheet 18 of 22



Inventor: Hidenobu HAMADA
Docket No.: 10873.878US01
Title: OPTICAL DEVICE
Attorney Name: Douglas P Mueller
Phone No.: 612 371 5237
Sheet 19 of 22



Inventor: Hidenobu HAMADA Docket No.: 10873.878US01 Trtle: OPTICAL DEVICE Attorney Name Douglas P Mueller Phone No.. 612 371 5237 Sheet 20 of 22



Inventor: Hidenobu HAMADA
Docket No.: 10873.878US01
Title: OPTICAL DEVICE
Attorney Name: Douglas P Mueller
Phone No 612.371.5237
Sheet 21 of 22

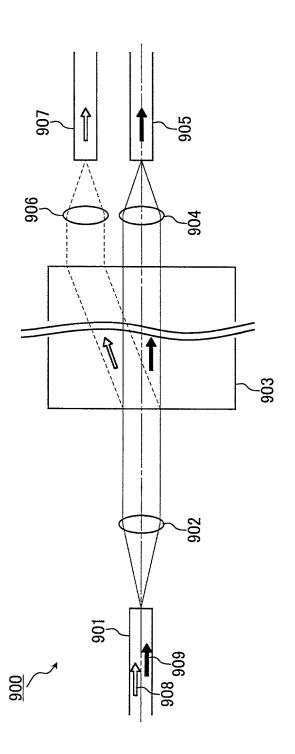


FIG. 21 (PRIOR ART)

Inventor: Hidenobu HAMADA Docket No.: 10873.878US01 Title: OPTICAL DEVICE Attorney Name Douglas P Mueller Phone No.: 612 371.5237 Sheet 22 of 22

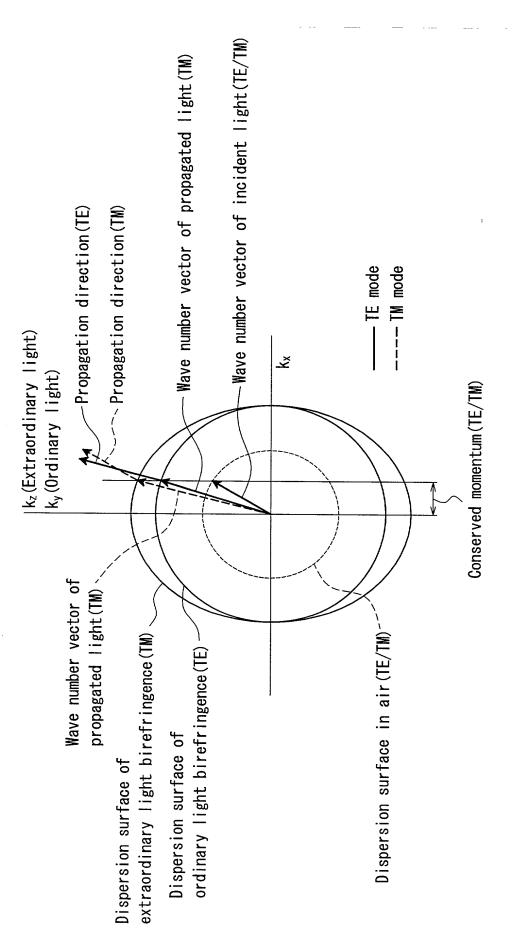


FIG. 22 (PRIOR ART)